ENGLISH

DEUTSCH

ITALIANO

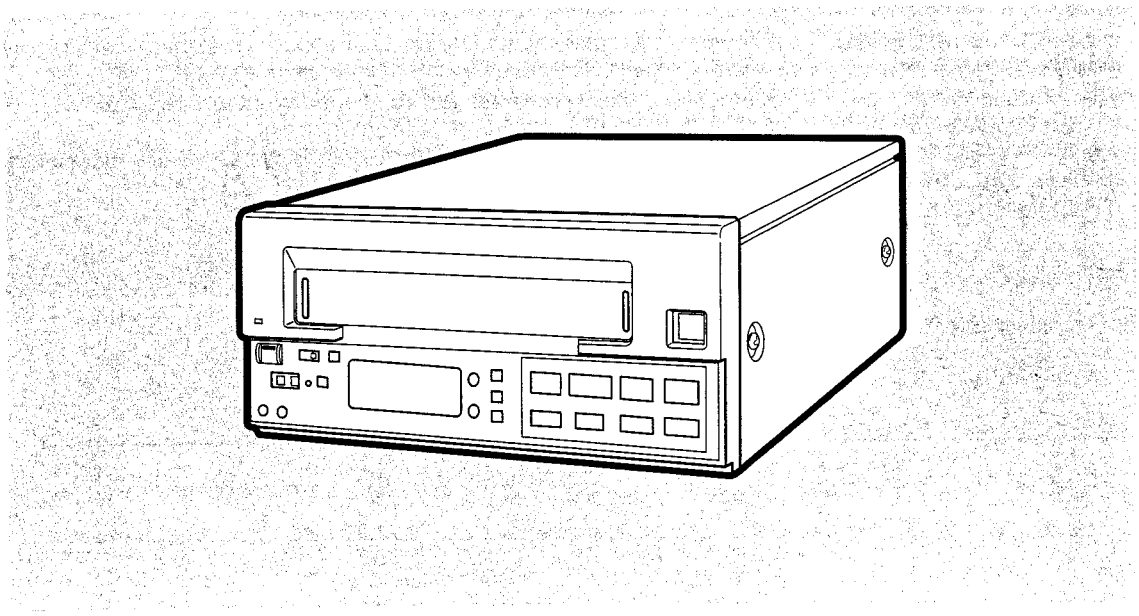
# Operating Instructions

VHS Hi-Fi

PAL

Video Cassette Recorder

Model AG-5260E



Panasonic

Before attempting to connect, operate or adjust this product, please read these instructions completely.

VQT5649

## IMPORTANT

**"Unauthorized recording of copyrighted television programmes, films, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws."**

■ **THIS APPARATUS MUST BE EARTHED.**
To ensure safe operation the three-pin lead supplied must be connected only into a standard three-pin power point which is effectively earthed through the normal household wiring.
Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Wrongly wired extension cords are a major cause of fatalities.
The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe. For your safety, if in any doubt about the effective earthing of the power point, consult a qualified electrician.

■ **DO NOT REMOVE PANEL COVER BY UNSCREWING.**
To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

■ If the unit is not going to be used for length of time, turn the power OFF and disconnect the power plug from the AC outlet.

**WARNING:**
**TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.**

**CAUTION:**
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

**Remark:**
This apparatus was produced to BS 800.
Dieses Modell entspricht der EG-Vorschrift (für Funkstörungsschutz) 87/308/EWG.
La Société PANASONIC-FRANCE, importateur du matériel MATSUSHITA-JAPON déclare que cet appareil est conforme aux prescriptions de la directive 76/889/C.E.E. modifiée par la directive 87/308/C.E.E.
Dit model is onderworpen aan de EEG-richtlijn (ter voorkoming van radio-interferentie) 87/308/EEG.
Denne model opfylder EF direktiv 87/308/EF (for forebyggelse af radiointerferens).
La Società PANASONIC ITALIA S.p.A., importatrice di questo prodotto, dichiara che questo apparecchio è conforme alle disposizioni della direttiva C.E.E./87/308 (D.M. 13.4.1989).
Este modelo cumple con la norma EC (para interferencias de radio 87/308/EEC).

□ is the safety information.

# Thank you for purchasing the Panasonic AG-5260 Video Cassette Recorder.

ENGLISH

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## Inspections

- Remote Controller AG-A11
- Video Cassette Tape
  Use tapes complying with the VHS standard with this unit.
  Use of Panasonic video tapes is recommended for recording and playback.

# Features

**Recording and playback up to 3 or 6 hours**
- Using a 1/2 inch VHS cassette tape, you can record and playback in both the SP (3-hour) and LP (6-hour) mode.

**Hi-Fi Audio**

**Compact and light weight**

**Repeat playback**
- Repeat playback can be performed from tape beginning to its end or from tape beginning to interruption of the video signal.

**Search playback**
- Locating any desired scene or position on the tape is made easy and fast by watching the tape being played back at about 11 times (SP mode) or 15 times (LP mode) normal speed in forward or reverse direction.

**Cassette tape insertion/ejection in power OFF mode**
- Cassette tape insertion and ejection can be performed even when the power has been turned OFF.

**Auto power ON**
- Power is turned ON automatically when the cassette tape is inserted in the unit or the power cord is connected to the AC outlet.

**Clear picture in still and slow-motion modes**

**Playback in the S-VHS mode**
- With this unit, it is available to playback S-VHS cassette tape (SP mode only).

**Timer recording/playback**
- Timer recording and playback can be performed by setting the timer start and end time besides the present time.

**Built-in AGC (Automatic Gain Control) Circuit**
- The video level can be adjusted at optimum level, and can be recorded at minimal distortion even with sudden and excessively high input levels.

**Audio dubbing**
- Audio dubbing can be performed onto the normal audio of the prerecorded tape.

**External timer recording/playback**
- External timer recording and playback can be performed using an external timer.

**Automatic playback/rewind**
- Playback or rewind starts automatically when the cassette tape is inserted in the unit.

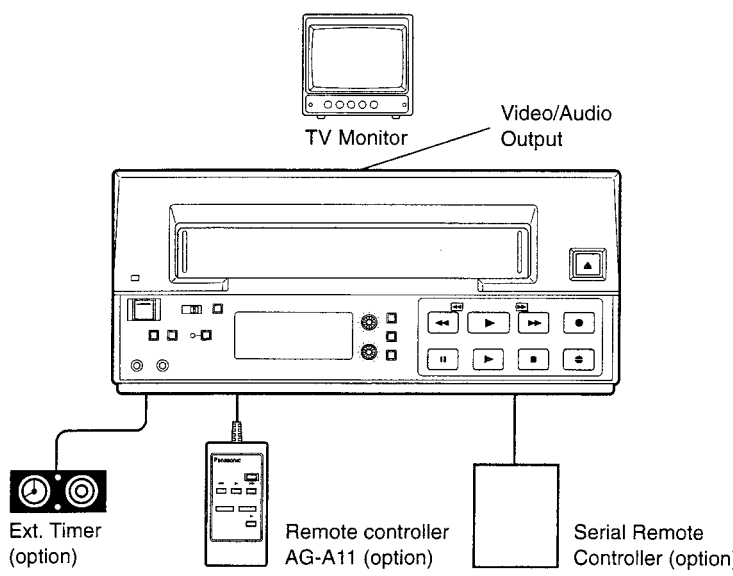
**Series playback**
- Repeat playback is available between 2 VTRs.

**Remote operation**
- Using an optional remote controller AG-A11, you can operate the unit about 5 meters away from the unit.

**Serial remote operation**

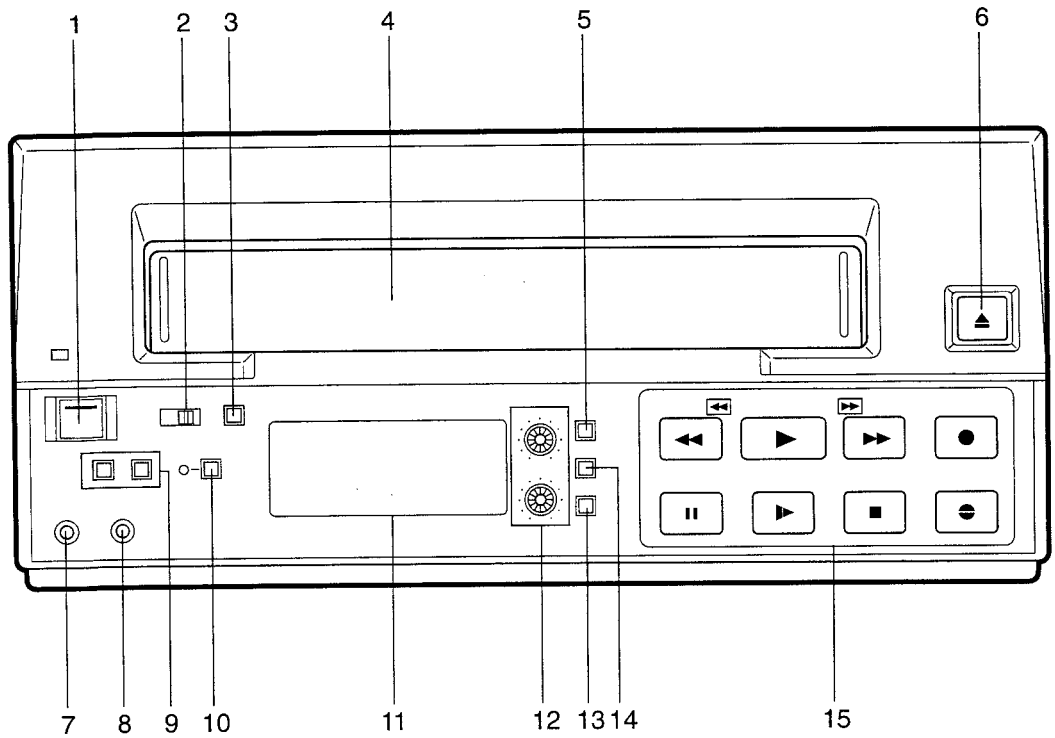
**Automatic Tracking Function**
- Tracking can be automatically adjusted by pressing the Tracking "–" and "+" Buttons simultaneously.

# System Configurations



# Controls

## Front

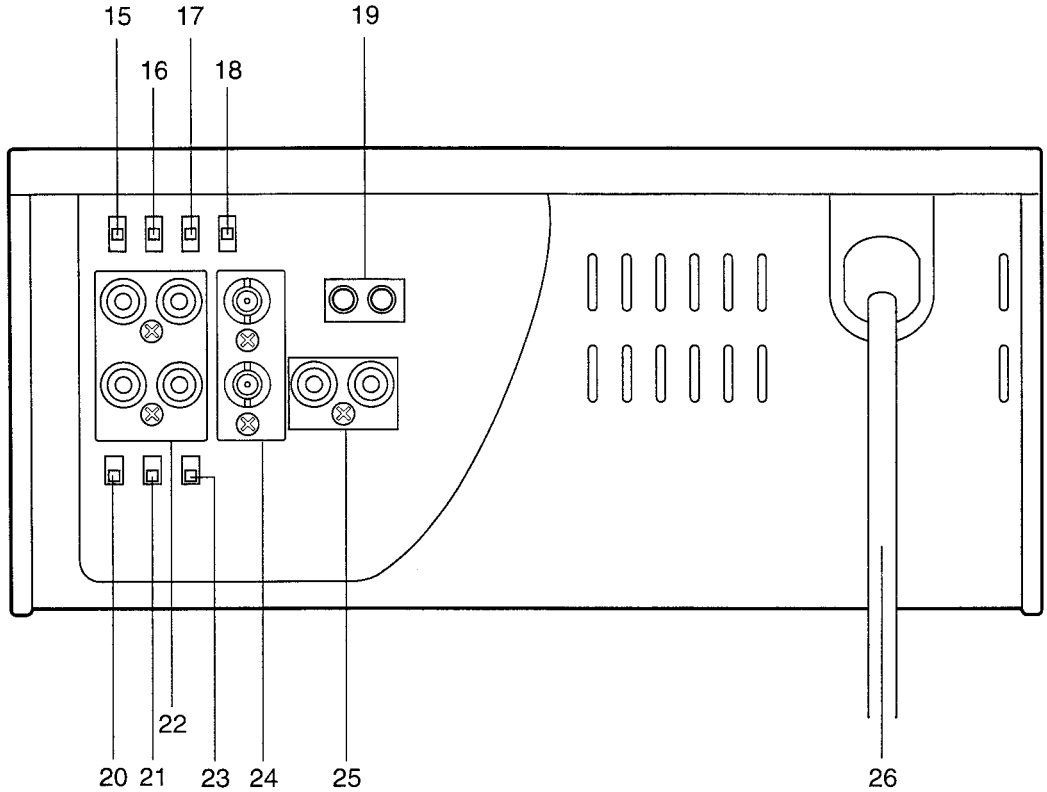



| No. | Name | Page | No. | Name | Page |
|---|---|---|---|---|---|
| 1 | VTR Switch* | — | 9 | Tracking Buttons | E-9, E-10 |
| 2 | Timer Programme/Mode Lock Switch | E-9, E-15 to E-17 | 10 | INT TIMER Switch | E-17 |
| 3 | Audio Out Select Button | E-9, E-10 | 11 | Counter/Audio Level Meters | E-8, E-10 |
| 4 | Cassette Holder | — | 12 | Hi-Fi Audio Level Controls | E-8 |
| 5 | Reset Button | E-10 | 13 | Tape Speed Button | E-8 |
| 6 | Eject Button | — | 14 | COUNTER MODE Button | E-10, E-13 |
| 7 | Remote Control Jack (Mini-Jack) | E-19 | 15 | Operation Buttons REW, PLAY, FF, REC, PAUSE/STILL, SLOW, STOP, AUDIO DUB | E-6 to E-17 |
| 8 | Microphone Jack | E-8, E-14 | | | |

*** For Swedish and Danish Customers**

- Aven om denna omkopplare är i "OFF"-läge, gar fortfarande en del av apparaten nätspänning.
- Selv om denne omskifter er i "OFF" stilling, tiløres en del af apparatet stadig strøm.

## Rear

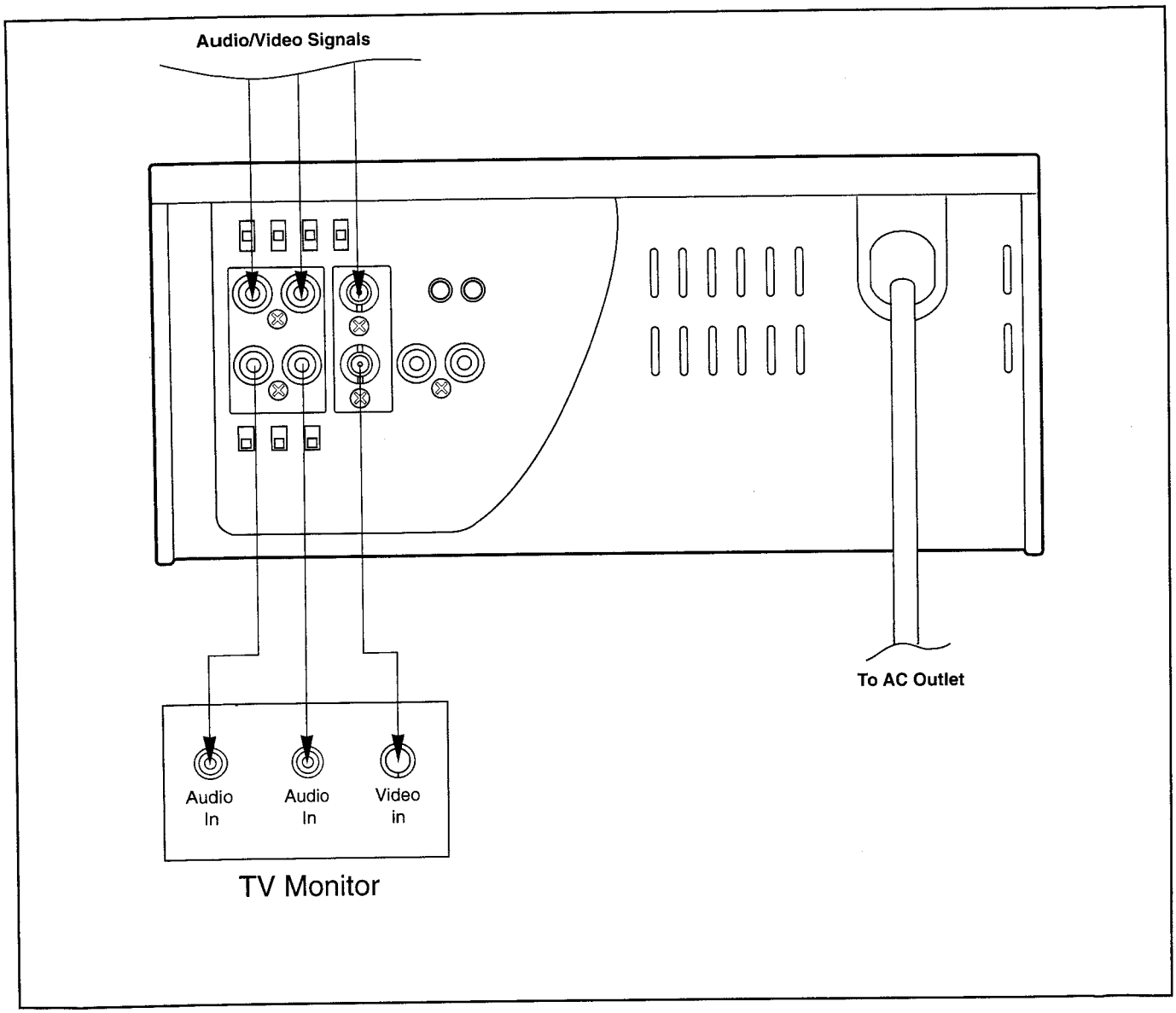



| No. | Name | Page | No. | Name | Page |
|---|---|---|---|---|---|
| 15 | TAPE IN Switch | E-9, E-10, E-18 | 21 | AGC Switch* | — |
| 16 | Timer Switch (Auto Repeat) | E-8 to E-11 E-13, E-14, E-16 to E-19 | 22 | Audio CH1/CH2 IN/OUT Connectors (PHONO) | E-7, E-8, E-12 to E-14 |
| 17 | Auto Rewind Switch | E-9 to E-12, E-17, E-18 | 23 | TV System CCIR/PAL Switch** | E-8, E-9 |
| 18 | Serial/Series Playback Switch | E-11, E-12, E-18 | 24 | Video IN/OUT Connectors (BNC) | E-7, E-8, E-12, E-13 |
| 19 | V-Lock Controls | E-19 | 25 | Remote IN/OUT Connectors (PHONO) | E-18 |
| 20 | Edit Switch | E-13 | 26 | Power Cord | — |

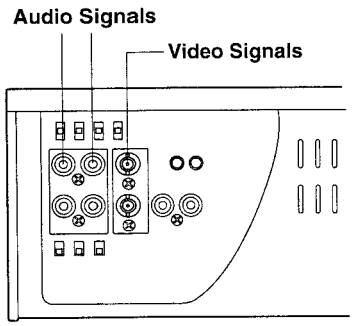
* When this switch is set to ON, the recording level is adjusted automatically.

** This switch offers CCIR/PAL operations.
**PAL:** Recording and playback of PAL colour signal.
**CCIR:** Recording and playback of CCIR system.

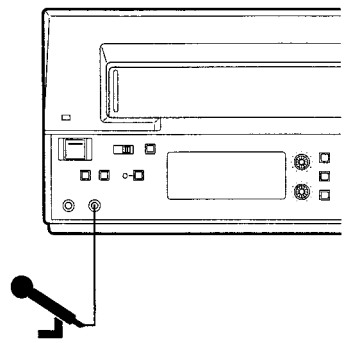
# Connections with TV Monitor



# Recording




**Note:**
If connections are made both to the MIC and audio jacks, the microphone takes precedence.



**Microphone**
(audio recorded as Hi-Fi audio and normal audio)

Audio Signals are recorded as described on the table.

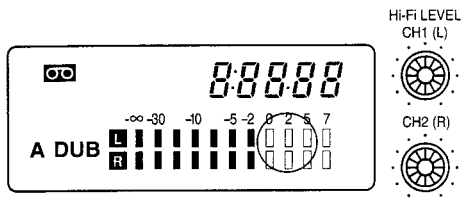
| CH / Audio Input | Hi-Fi | Normal |
|---|---|---|
| CH1 | CH1 | CH1 |
| CH2 | CH2 | CH2 |
| CH1 & CH2 | Stereo (CH1 & CH2) | Mixed Audio (CH1 & CH2) |

## Preparations

- Set the TV System CCIR/PAL Switch to the desired position.
- Set the Timer Switch and Edit Switch to "OFF".
- Load the pre-recorded cassette tape.
  (Make sure that the record safety tab on the cassette tape is intact.)

### Audio Level Adjustment (Hi-Fi audio only)

- The audio level can be adjusted only for Hi-Fi audio. Adjust the Hi-Fi Audio CH1/CH2 Level Controls so that the audio level meter indication is set around 2 (so that the 2 level is not exceeded).




## Tape Speed

- Press the Tape Speed Button to select the desired tape speed.

SPEED

No indication (SP mode): Standard mode (recording for approx. 180 minutes using an NV-E180 tape)

6H (LP mode): Long play mode (recording for approx. 360 minutes using an NV-E180 tape)

## Recording

- Recording starts when the REC and PLAY Buttons are pressed simultaneously.

If the record safety tab on the cassette tape is not intact, the cassette tape will be ejected.

- When the PAUSE/STILL Button is used, the sequence of operation is as follows.

1. Playback the tape and find the location which is to be recorded. Then press the PAUSE/STILL Button. The "❚❚" indication will appear on the Counter and the unit is set to the playback pause mode.
2. Press the REC and PLAY Buttons simultaneously. The REC lamp now comes ON and the unit is set to the recording pause mode.
3. When the PAUSE/STILL Button is pressed again, the unit is released from the pause mode and recording begins.

## Stopping Recording

- Press the STOP Button.

**Mode Lock Function**

Mode Lock Function makes it impossible to switch from one VTR operation to another. Setting the Timer Programme/Mode Lock Switch to "MODE LOCK", the Power Switch and Operation Buttons do not function. However, operations from the remote controller are available.

# Playback



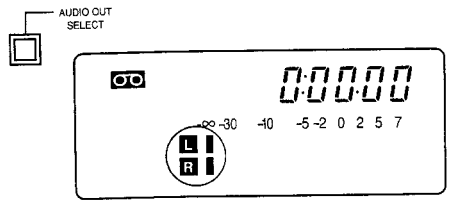
### Preparation

- Set the TV System CCIR/PAL Switch to the desired position.
- Set the following switches to "OFF".
  - TAPE IN Switch
  - Timer Programme/Mode Lock Switch
  - Auto Rewind Switch
  - Timer Switch
- Insert a recorded tape.

### Audio Out Select Button

- Set the Audio Out Select Button to the desired position. This is to select the audio signal through Audio CH1/CH2 OUT Connectors. Each time the Audio Out Select Button is pressed, the audio output mode will change as follows:

Hi-Fi → L CH → R CH → No indication (Linear)




### Tape Speed

- There is no need to set the tape speed since setting is automatically made to the speed which the tape was recorded.
- Noise may appear when playing back tapes recorded in LP mode.

### Normal Playback

- Press the PLAY Button. "▷" indication will appear on the Counter and playback will start.
- Press the Tracking Buttons simultaneously if the image is partially obscured by bands of noise to move the noise out of the picture. If the noise persists, use the "–" or "+" Button for adjustment.

TRACKING

– □ □ +

### Double-speed Playback

- Press the PLAY Button during normal playback. The playback picture can be viewed at about twice normal playback speed. To return to normal playback, press the PLAY Button.
- No sound is heard during double-speed playback.

### Slow Motion Playback

- Press the SLOW Button during playback. The playback picture can be viewed at a lower speed. Each time the SLOW Button is pressed, the unit will run at one of the slow motion speeds shown below. To return to normal playback, press the PLAY Button.

Normal speed → 1/30 → 1/20 → 1/15 → 1/10 → 1/6 ↩

- If slow motion playback continues for over 10 minutes, the unit will go into stop mode automatically.
- No sound is heard during slow motion playback.

### Search Playback

- When the FF or REW Button is held down while the unit is in the playback, slow motion playback or still, the tape will be played back in the forward or reverse direction at about 11 times normal speed in SP mode, and at about 15 times normal speed in LP mode.

### Still Playback

- Press the PAUSE/STILL Button during normal playback or slow motion playback. Still playback will only return to normal playback mode by pressing the PAUSE/STILL Button once again.
- If noise appears during still playback, set for slow motion mode and adjust with the Tracking Control Buttons to minimize the bands of noise as shown below, then press the PAUSE/STILL Button.

TRACKING

– □ □ +

- If still playback continues for more than 5 minutes, the unit will go into stop mode automatically.
- A distortion may occur on the picture during still mode, but this is not a mulfunction.
- No sound is heard during still playback.
- Colour programme is played back in black and white and playback image may be dark during still mode, but this is not a malfunction.

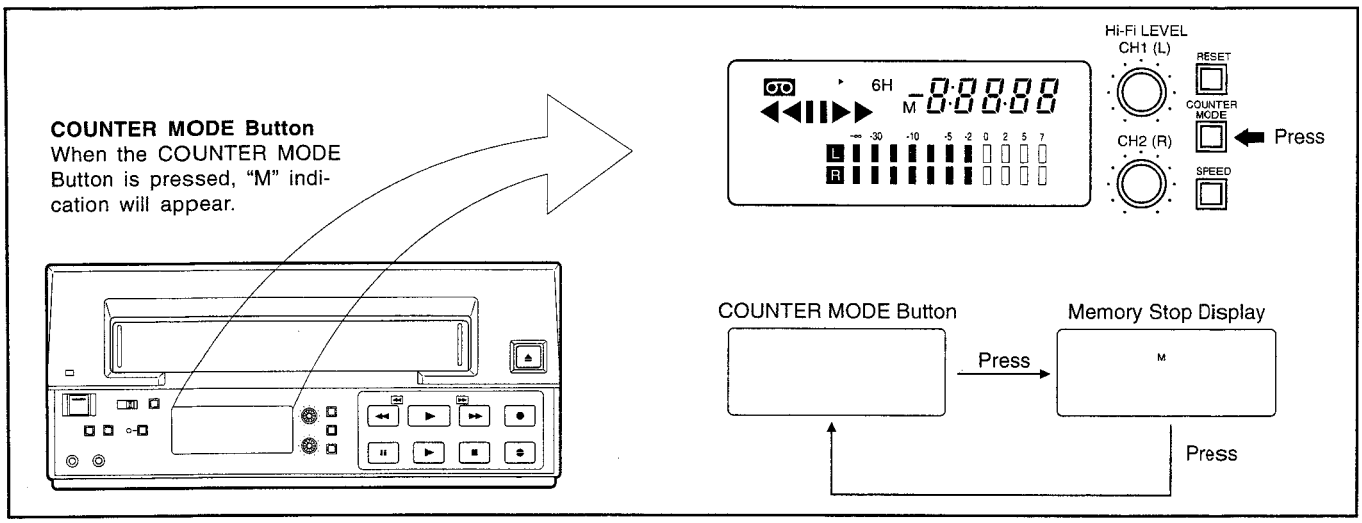
# Automatic Playback/Rewind

- Set the Auto Rewind Switch and the Timer Switch to OFF.

❶ Set the TAPE IN Switch to "PLAY" or "REW".

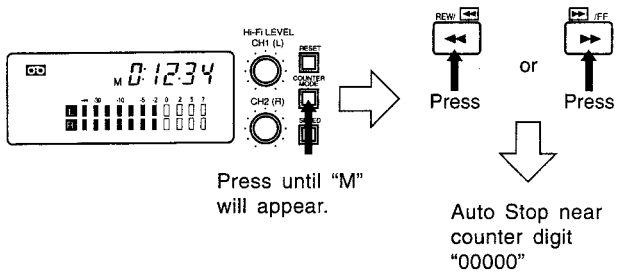
❷ Insert a cassette tape.
- Automatic playback or rewind will start.

# Counter



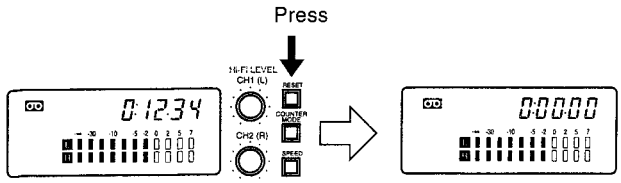

## Memory Stop

When the COUNTER MODE Button is pressed and the "M" display lights on the Counter, the tape can be stopped near counter digit "00000" during FF or REW modes.



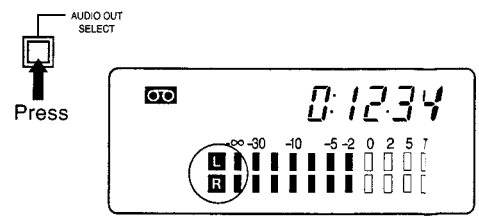

## Counter Reset

Pressing the Reset Button clears the counter indication to "00000".



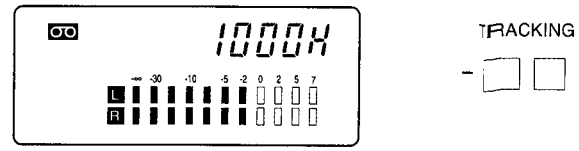

## Audio Output

Each time the power is turned ON, Hi-Fi mode is automatically selected for audio output (L and R indications both appear on the Counter). Use the Audio Out Select Button to select for the desired audio output.




## Hour Meter

When the Tracking Buttons are pressed simultaneously in stop mode, the total number of hours that the VTR has been used (the cylinder has turned) is indicated on the Counter.



# Repeat Playback

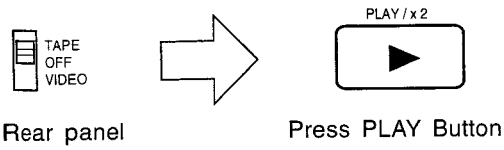
- Set the Timer Switch to "PLAY".
- Set the SERIAL/SERIES Playback Switch to "SERIAL".



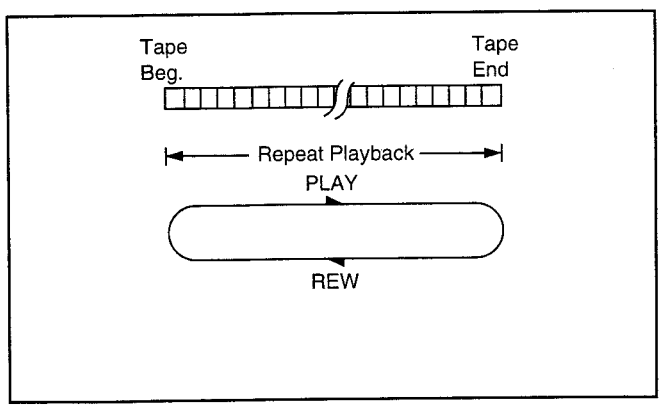
## Repeat playback between tape beg. and tape end

If it is desired to playback the tape repeatedly from tape beginning to tape end, proceed as follows:

1. Set the Auto Rewind Switch to "TAPE".
2. Press the PLAY Button.!




Rear panel — Press PLAY Button

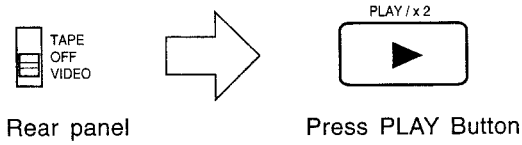



- "↻" indication will appear on the Counter when repeat playback setting is done.
- If a power failure occurs during this function, repeat playback will start after the power has been restored.

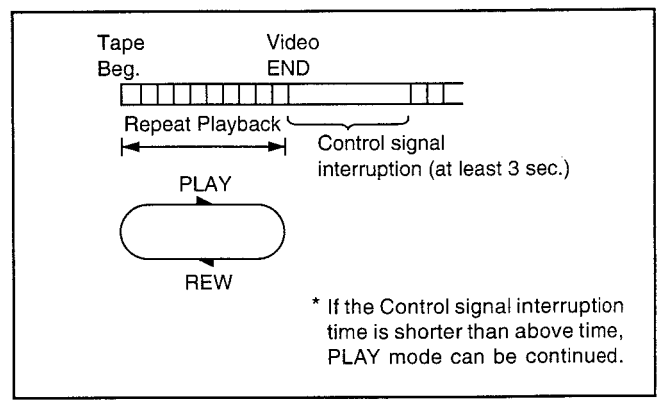
## Repeat playback between tape beg. and video end

If it is desired to playback the tape repeatedly from tape beginning to interruption of the video signal, proceed as follows:

1. Set the Auto Rewind Switch to "VIDEO".
2. Press the PLAY Button.




Rear panel — Press PLAY Button




**Notes:**

- If short repeat playback is continued many times, the repeat section of tape may be damaged.
- Do not perform a memory operation during auto repeat playback. The tape will stop when "00000" is indicated on the counter.

The following Panasonic tapes are recommended for Repeat Playback use.

- NV-E180
- NV-E120
- NV-E90
- NV-E60
- NV-E30

**As a general guide, it is recommended that the tape be replaced after it has been used about 250 times under severe conditions which involve, for instance, repeat playback or series playback.**

# Series Playback

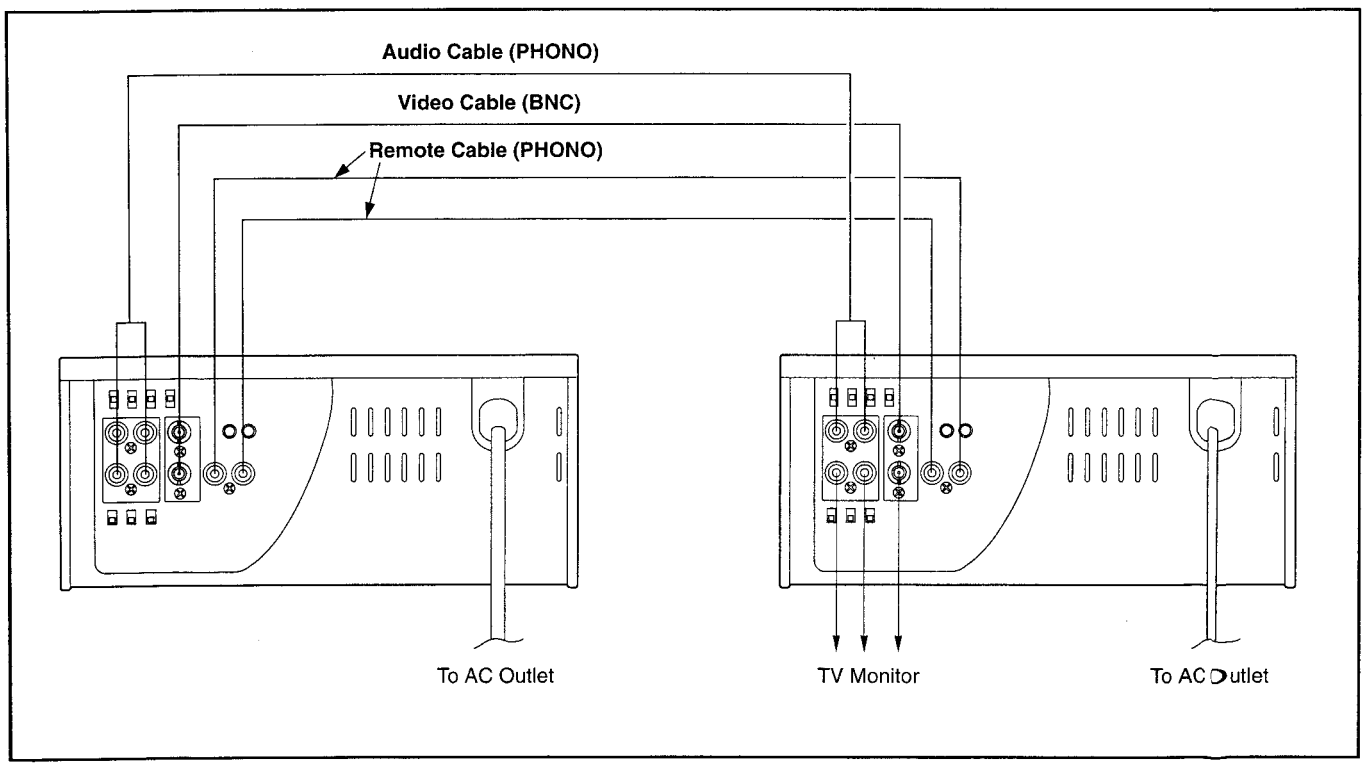
Connect two VTRs as shown below. When one of the VTR finishes playback, the other VTR starts playback. Setting the VTRs to auto rewind mode (selection of tape end or video signal end), repeat playback between one another is available.

- Set the Auto Rewind Switch to "TAPE" when performing repeat playback between tape beginning and tape end.
- Set the Auto Rewind Switch to "VIDEO" when performing repeat playback between tape beginning and end of video signal.
- If remote cable is not connected to the remote output connector of the VTR for subsequent playback, series playback will be performed only once.

## Operations

1. Set the SERIAL/SERIES Playback Switch to "SERIES PB".
2. Insert the recorded tape.
3. Search for the desired playback beginning point for each VTR.
4. Press the PLAY Button of the VTR which is desired to be played back first.

Playback starts the same as repeat playback. For details, refer to the "Repeat Playback".




**Note:**
Do not use the Remote Input/Output Connectors for any purpose except for serial remote control since a breakdown or failure may otherwise occur.

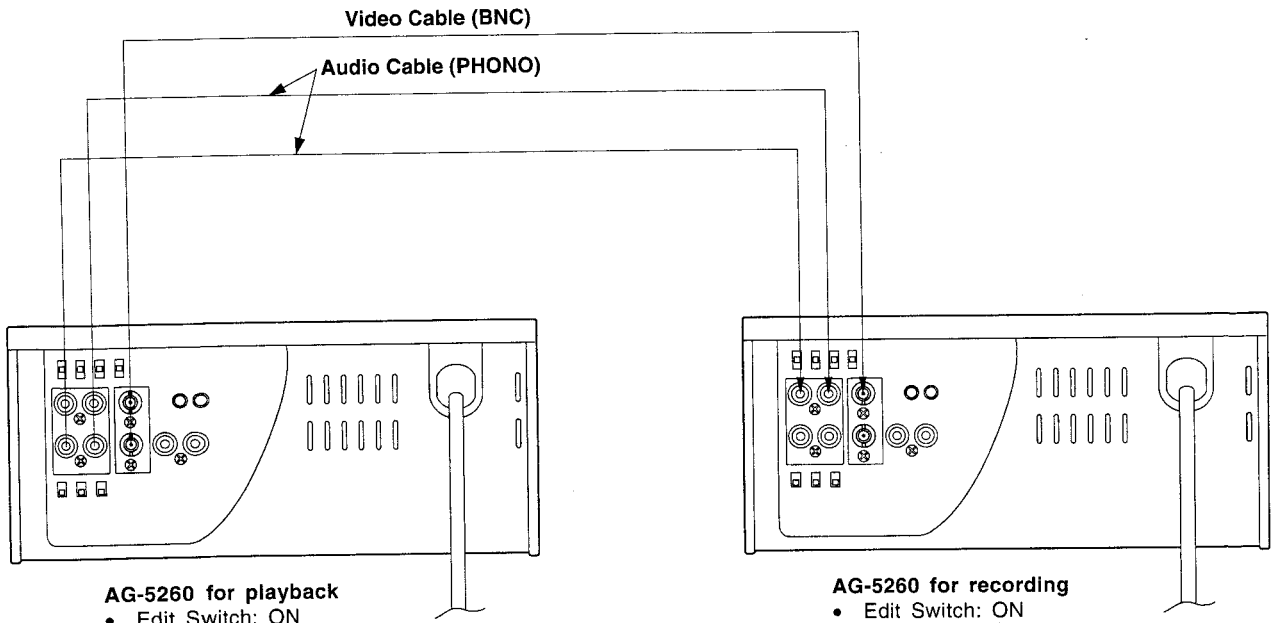
Use of Panasonic video tapes is recommended for series playback.

- NV-E180
- NV-E120
- NV-E90
- NV-E60
- NV-E30

**As a general guide, it is recommended that the tape be replaced after it has been used about 250 times under severe conditions which involve, for instance, repeat playback or series playback.**

# Dubbing

- Refer to the figure below for the connections which apply when using two VTRs for dubbing.




**AG-5260 for playback**
- Edit Switch: ON
- COUNTER MODE Button: OFF
- Timer Switch: OFF

Load the pre-recorded tape.

**AG-5260 for recording**
- Edit Switch: ON
- COUNTER MODE Button: OFF
- Timer Switch: OFF

Load the unrecorded tape.

## Operation

1. Press the PLAY Button on the playback VTR to start playback.
2. Press both the REC and PLAY Buttons on the recording VTR at the location where the dubbing is to begin, and proceed with dubbing.
3. To stop the dubbing, first press the STOP Button on the recording VTR and then press the STOP Button on the playback VTR.

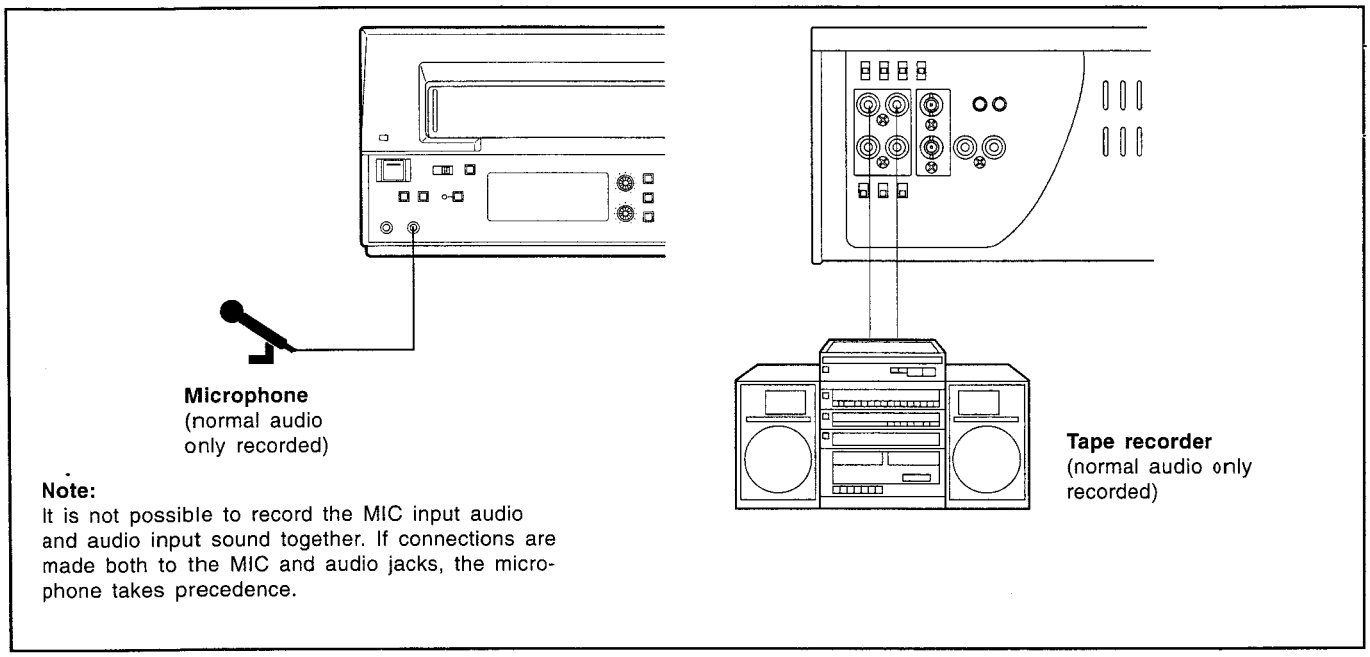
- With 6-hour recording for dubbing purposes, use the unit with the Hi-Fi REC Switch at the OFF position.

**Edit Switch**
This switch is to minimize the distortion of the picture during dubbing.
- Set this switch to ON during dubbing.
- Be sure to set to OFF after dubbing.

ENGLISH

# Audio Dubbing

"Audio Dubbing" is a function which records the sound after the cassette tape has been recorded. The sound is recorded on the normal audio track (and not on the Hi-Fi audio tracks).




**Note:**
It is not possible to record the MIC input audio and audio input sound together. If connections are made both to the MIC and audio jacks, the microphone takes precedence.

### Preparations

- Set the Timer Switch to the OFF position.
- Set the COUNTER MODE Button to OFF.
- Insert the recorded tape.
  (Make sure that the record safety tab is intact on the cassette tape. If not, the cassette tape will be ejected.)

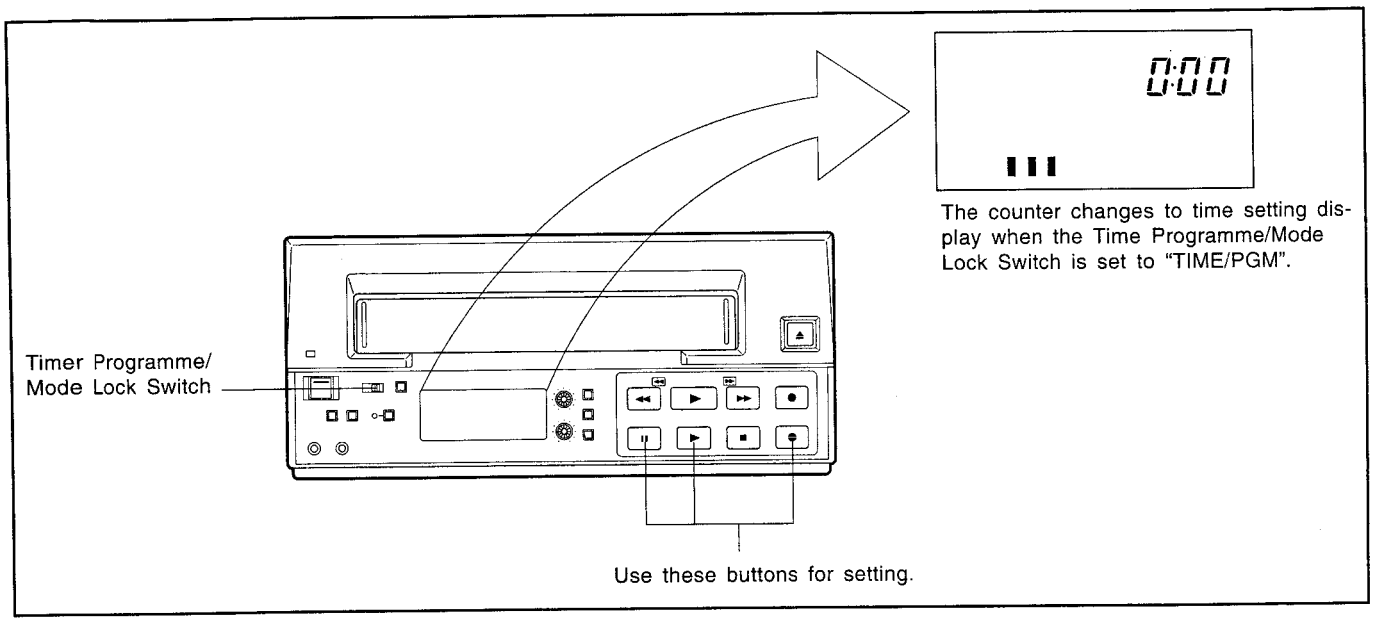
### Audio Monitor Output

- The unit is set to the Hi-Fi mode when the power is installed.
  (L and R indications will both light in the Counter.)
  To select to the desired audio, press the Audio Output Button.
  For details, refer to the "Playback".

### Operations

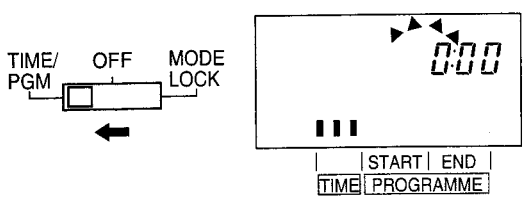
1. Press the PLAY Button to start playback.
2. Press the PAUSE/STILL Button where the sound is to be added (audio dubbing).
3. Press the AUDIO DUB Button.
4. Audio dubbing starts as soon as the PAUSE/STILL Button is pressed to release the pause mode.
5. Press the STOP Button to stop the audio dubbing.

# Time Setting

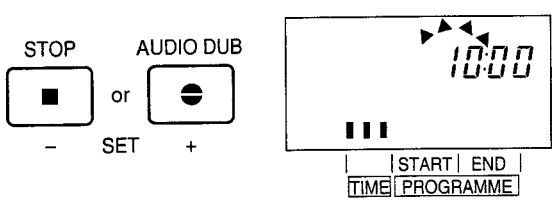

0:00
The counter changes to time setting display when the Time Programme/Mode Lock Switch is set to "TIME/PGM".
Timer Programme/
Mode Lock Switch
Use these buttons for setting.

## Operation

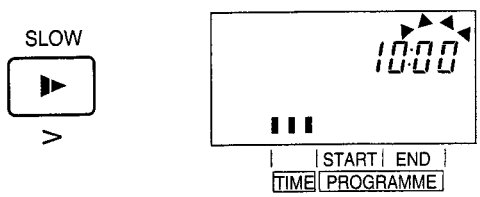
❶ Set the Timer Programme/Mode Lock Switch to "TIME/PGM". The "HOUR" part will flash.



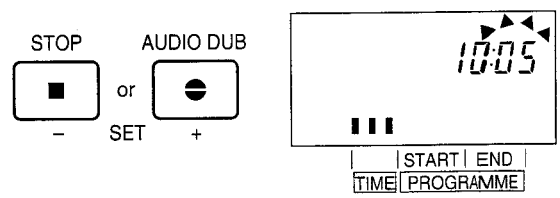

❷ Set the "HOUR" using the STOP (■) Button or the AUDIO DUB (⏏) Button.



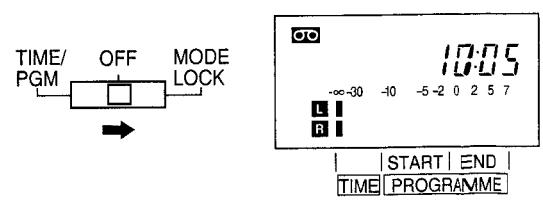

❸ Press the SLOW (▮▶) Button and move the flashing to the "MINUTE" part.




❹ Set the "MINUTE" using the STOP (■) or the AUDIO DUB (⏏) Button.



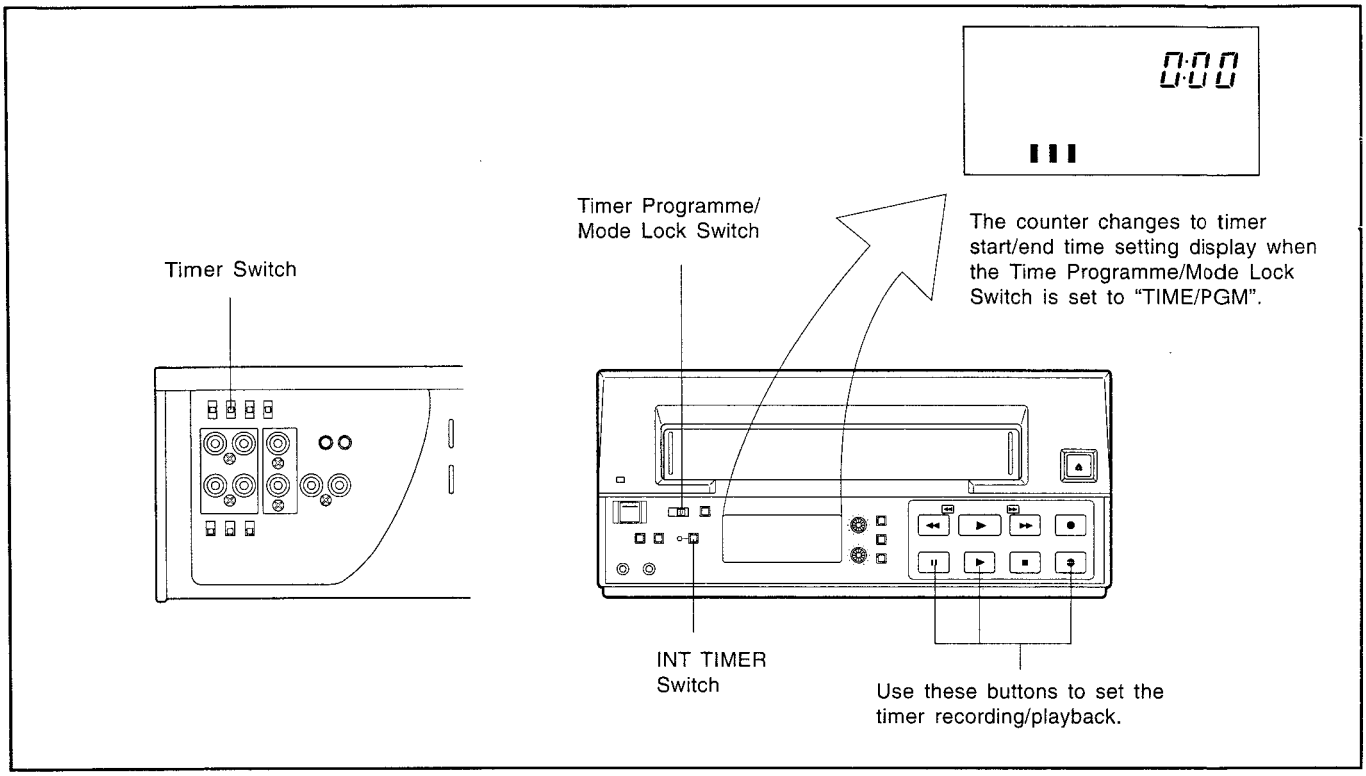

❺ Set the Timer Programme/Mode Lock Switch to "MODE LOCK" or "OFF".




Note:

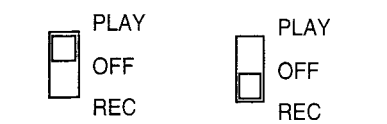
- The "SECOND" will be automatically set to "00" when time setting is performed.

# Timer Recording/Playback


0:00
Timer Programme/
Mode Lock Switch
The counter changes to timer start/end time setting display when the Time Programme/Mode Lock Switch is set to "TIME/PGM".
Timer Switch
INT TIMER
Switch
Use these buttons to set the timer recording/playback.

**Preparations**

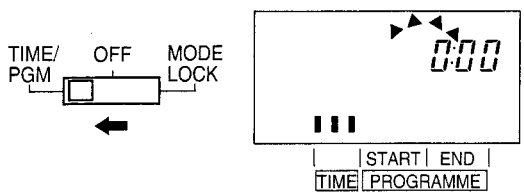
- Set the Timer Switch to "PLAY" or "REC".



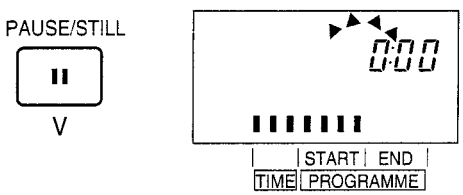

Timer playback  Timer recording

## Operation

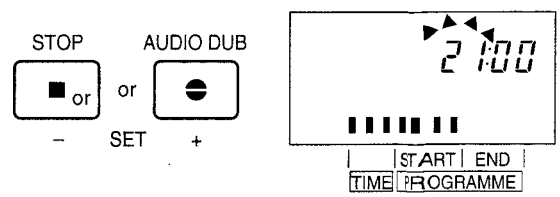
❶ Set the Timer Programme/Mode Lock Switch to "TIME/PGM".



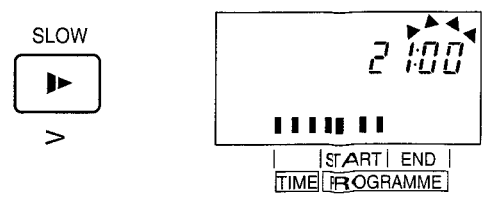

❷ Press the PAUSE/STILL (II) Button to select the timer start time.



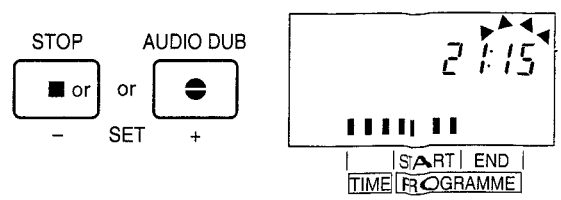

❸ Set the "HOUR" using the STOP (■) or AUDIO DUB (⊖) Button.



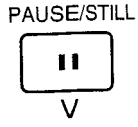

❹ Press the SLOW (▮►) Button and move the flashing to the "MINUTE" part.

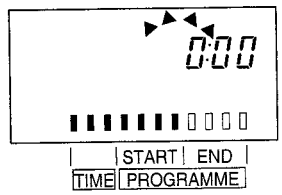



❺ Set the "MINUTE" using the STOP (■) or AUDIO DUB (⊖) Button.

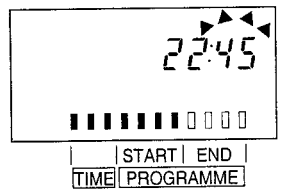


⑥ Press the PAUSE/STILL (❚❚) Button to select the timer end time.

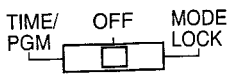


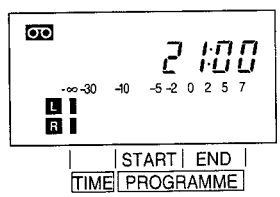




⑦ Repeat step ❸ to ❺ and set the "HOUR" and "MINUTE" of the timer end time.

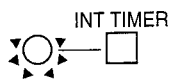



⑧ Set the Timer Programme/Mode Lock Switch to "MODE LOCK" or "OFF".




⑨ Press the INT TIMER Switch. The INT TIMER Lamp lights.




⑩ The power will be automatically ON from 21:15 to 22:45 and the unit will either start timer recording or playback according to the setting of the Timer Switch.

**Notes:**

- If the Timer Switch is set to "OFF", the unit will be powered ON when the starting time comes.
- When auto repeat playback is desired with timer playback, set the Timer Switch to "PLAY" and the Auto Rewind Switch to "TAPE" or "VIDEO". For details, refer to the "Repeat Playback".
- When performing timer recording, make sure that the record safety tab on the cassette tape is intact. If the record safety tab is not intact, the cassette tape will be ejected automatically.
- The cassette tape cannot be ejected when the INT TIMER Lamp is lighted.
- When the timer starting time and the timer end time are set to the same, timer recording or playback will commence all day long.
- As the tape cannot be rewound automatically, timer recording cannot be performed when the unit reaches to the tape end.

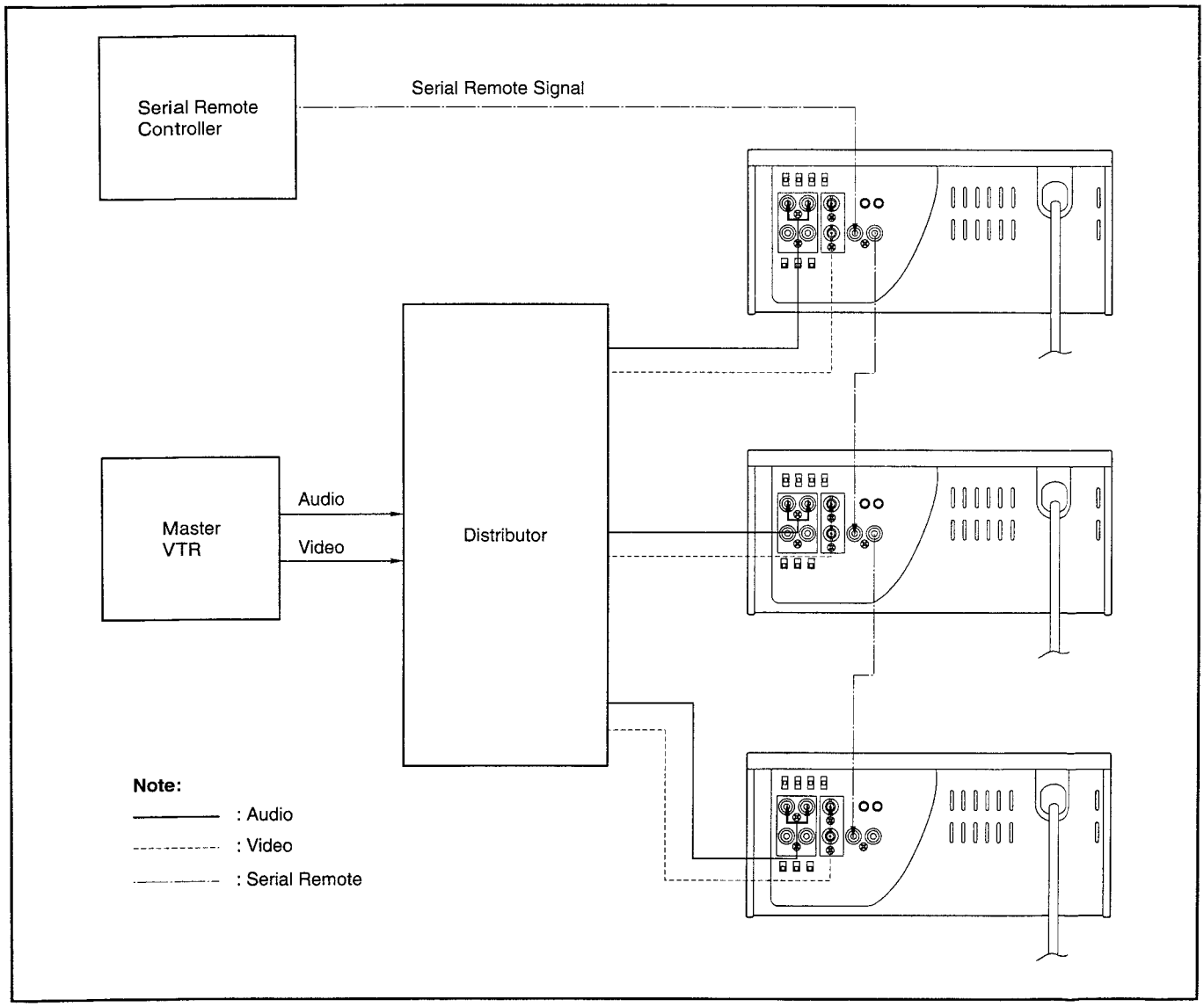
ENGLISH

# Serial Remote Control

The use of the optional serial remote controller makes it possible to conduct recording, playback and other operations from a distance, as shown in the figure. For details, consult with your authorized service personnel.

### Preparations

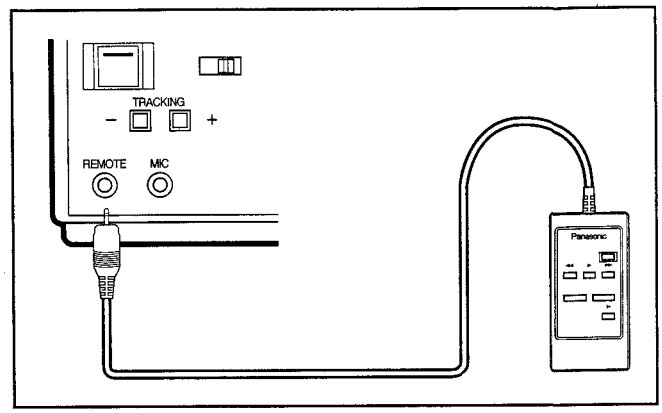
- Set the TAPE IN Switch to "OFF".
- Set the Timer Switch to "OFF.
- Set the Serial/Series Playback Switch to "SERIAL".




**Note:**
Do not use the Remote Input/Output Connectors for any purpose except for serial remote control since a breakdown or failure may otherwise occur.

# Remote Controller

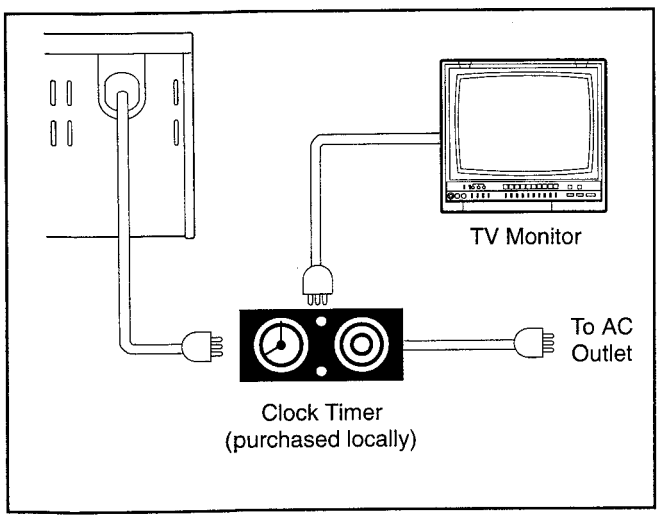
When the optional remote controller AG-A11 is connected to the Remote Control Jack on the front panel of this unit, the unit can be controlled from a distance instead of using the operation buttons on the unit.




# External Timer Recording/Playback

The use of an external timer permits timer recording/playback with this unit.

- Connect the timer with this unit and the TV Monitor as follows:




**Preparation**

- Turn this unit and the TV Monitor ON.
- Insert the cassette tape.

❶ Set the timer to the desired ON and OFF time. (Refer to the operating instructions for the timer.)
- It takes about one minute to load the tape inside the unit. Therefore, set the timer pre-set time about one minute.

❷ Set the Timer Switch to "REC" or "PLAY".

❸ At the preset ON time, the power will be automatically turned ON, the tape will start moving, and the picture will appear on the monitor.

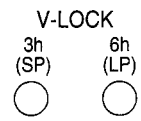
❹ At the preset OFF time, the unit will be turned off, but the tape will remain loaded on the cylinder of the unit. (When the power is resumed, the tape will be unloaded and then the unit will go into the recording/playback mode.)

**Notes:**

- Whenever possible it is best to set the timer OFF position so that the unit is turned OFF about 10 minutes after the tape ends. This will help protect the tape. If, for example, NV-E180 tape is used, the turn-off time should be set for about 190 minute.
- Press the STOP Button to stop the timer recording/playback.

# V-LOCK Adjustment

If picture jitters vertically in STILL, adjust the V-Lock Controls on the rear panel, but a one time adjustment should be necessary.



# Cautions for Use

- Do not insert fingers or any other objects into the video cassette holder.
- Avoid operating or leaving the unit near strong magnetic fields. Be especially careful of large audio speakers.
- Avoid operating or storing the unit in an excessively hot, cold, or damp environment as this may result in damage both to the unit and to the tape.
- Do not spray any cleaner or wax directly on the unit.
- If the unit is not going to be used for a length of time, turn the Power OFF and disconnect the power plug from the AC outlet.
- Do not leave a cassette in the unit when not in use.
- Do not block the ventilation slots on the top of the unit.
- Use this unit horizontally and do not place anything on the top panel.
- Cassette tape can be used only for one-side, one direction recording. Two-way or two-track recordings cannot be made.
- Keep the VTR away from flower vases, tubs, sinks, etc. **CAUTION:** If liquids should be spilled into the VTR, serious damage could occur. If you spill any liquid into the VTR, remove power and consult qualified service personnel.
- Wipe the VTR with a clean, dry cloth. Never use cleaning fluids, chemicals or wax.
- Do not attempt to disassemble the unit. There are no user serviceable parts inside.
- If any liquid spills inside the unit, have the unit examined for possible damage.
- Refer any needed servicing to authorized service personnel.

**Cleaning care for video heads**

If the screen should appear as shown below, it means that the video heads are dirty. It is recommended that you clean the heads periodically. Use the optional cleaning tape and special purpose cleaning fluid to clean the heads. Consult with your dealer if the symptoms should persist even after cleaning.

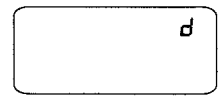
**Note:**

- We do not recommend that you attempt to clean the video heads yourself.
- Repeated head cleaning will shorten the service life of the video heads.
- Nothing can be recorded on the head cleaning tape.
- If you use cleaning fluid, wipe the cleaned heads with a dry cloth before using the unit.

## Dew Indication

When dew is detected, the safety device of this unit will operate in order to protect the cassette tape and video heads.
In case of dew detection, the "d" mark in the counter lights. Wait until the "d" mark goes out with VTR switch turned ON.

"d" mark lights.




**Note**

Dew condensation normally occurs gradually. Therefore, there may be cases in which the "d" mark does not start flashing until 10 or 15 minutes after dew has begun to condense. In particular, if the temperature or humidity in the room change, wait about 20 minutes before using the unit.

**Cause of Condensation**

Condensation forms if warm air comes in contact with a cold object, for example on a window in a well-heated room in winter. It may form if the unit or the video cassette is exposed to sudden changes in temperature and humidity such as may occur when the unit or the video cassette is taken from a cold to a warm place. For instance:

- In a room where the heater has just been turned on in winter;
- In a room with steam or high humidity;
- If the unit or the cassette is brought from cold surroundings into a well-heated room.

# Troubleshooting

...Check the following points once again.

ENGLISH

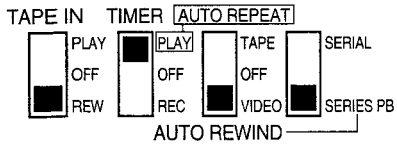
| Trouble | Corrections |
|---|---|
| No power | • Check that the power cord is connected to the AC Outlet. |
| When the power is turned ON, the unit starts the recording/playback automatically. | • Check that the Timer Switch is OFF. |
| No operation starts when operation buttons are pressed. | • Check that the VTR Switch is ON.<br>• Check that the cassette tape is inserted.<br>• Check the "d" mark.<br>When the "d" mark lights:<br>Take out the video cassette and leave the unit on and let it remain at room temperature until "d" mark disappears. Depending on the surrounding conditions, this may take several hours.<br>• Check that the Time Programme/Mode Lock Switch is set to the "OFF" position. |
| When the Record and Play Buttons are pressed at the same time, the tape is ejected. | • Check that the erasure prevention tab is still intact on the back of the tape. |
| The Playback picture is noisy or contains streaks. | • Adjust by the Tracking Control Buttons. |
| Repeated playback cannot be performed. | • Check that the Timer Switch is set to the "OFF" position.<br>• Check that the Auto Rewind Switch is set to the "OFF" position. |
| When the tape is inserted, unit starts playback automatically. | • Check that the Serial/Series Playback Switch is at the "SERIAL" position.<br>• Check that the TAPE IN Switch is at the "OFF" position. |
| Series playback cannot be performed. | • Check that the Serial/Series Playback Switch is at the "SERIES PB" position. |

**Refer servicing to qualified service personnel.**

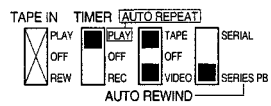
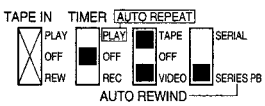
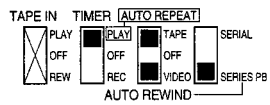
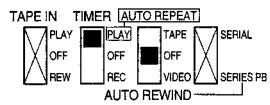
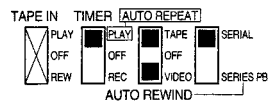
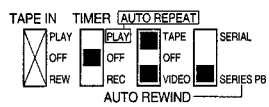
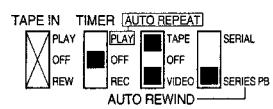
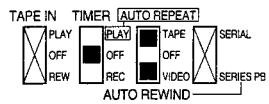
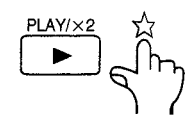
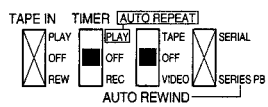
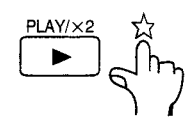
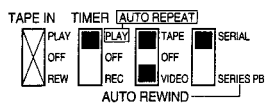
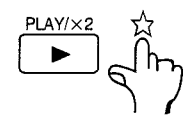
# Table of Rear Panel Switch Operations

The table below lists the switch settings which apply when the rear panel switches are to be operated. Set the switches to the positions that correspond with the intended operation.

The following figure shows the rear panel switch area.




When using the unit in the modes listed below, set the switches as shown in the figure.

| Operation | | Switch position | | Remarks |
|---|---|---|---|---|
| | | 1st VTR | 2nd and subsequent VTRs | |
| ❶ Timer series playback (2 or more VTRs connected) | |  |  | (↻) is displayed for 10 seconds after the timer has been set ON. |
| ❷ Timer playback (1 VTR connected) | With auto rewind |  | — | (↻) is displayed for 10 seconds after the timer has been set ON. |
| | Without auto rewind |  | — | (↻) is displayed for 10 seconds with series playback and all the time with serial playback after the timer has been set ON. |
| ❸ Timer auto repeat playback (1 VTR connected) | |  | — | (↻) is displayed all the time after the timer has been set ON. |
| ❹ Manual series playback (2 or more VTRs connected) | |  |  | |
| ❺ Manual playback (1 VTR connected) | With auto rewind |  | — |   |
| | Without auto rewind |  | — |   |
| ❻ Manual auto repeat playback (1 VTR connected) | |  | — |   (↻) is displayed all the time. |

- The position of the cassette IN switch has no bearing on any of the above operations.
- Set the auto repeat switch to the "tape" or "video" position unless "without auto rewind" applies.
- To initiate operations from ❹ manual series playback to ❻ manual auto repeat playback, press the play button upon completion of the settings.

# Specifications

| | |
|---|---|
| **Power Source** | : 220-240V AC, 50-60 Hz |
| **Power Consumption** | : 19W |

| | |
|---|---|
| **Video Recording System** | : 2 head-helical scanning, azimuth recording, VHS standards |
| **Tape Speed** | : 23.39 mm/sec (SP mode)<br>11.695 mm/sec (LP mode) |
| **Tape Format** | : VHS tape |
| **Recording/Playback Time** | : 180 minutes (SP mode, with NV-E180) |
| **FF/REW Time** | : Less than 3 minutes (SP mode, with NV-E180) |
| **Operating Temperature** | : 5°C to 40°C (during operation) |
| **Operating Humidity** | : 35% to 80% |
| **Weight** | : 5.1 kg |
| **Dimensions** | : 270(W) X 120(H) X 344.5(D) mm |

| | |
|---|---|
| **Video** | |
| **Television System** | : CCIR Standard (625 lines, 50 fields)<br>PAL colour signal |
| **Modulation System** | : Luminance; Frequency modulation recording<br>Colour Signal; Converted subcarrier phase shift recording |
| **Input/Output** | : Line (BNC); 1.0 Vp-p, 75Ω |
| **Video Horizontal Resolution** | : 240 lines (colour) |
| **S/N Ratio** | : 45 dB (colour, SP mode) |

| | |
|---|---|
| **Audio** | |
| **Input** | : Audio; Audio IN (PHONO), –8 dBv, 47kΩ<br>Mic; Mini-Jack; –60 dBv, 600Ω |
| **Output** | : Audio; Audio OUT (PHONO), –8 dBv, 1 kΩ (1 Vrms=0 dB) |
| **Channels** | : 3 Channels (Hi-Fi: 2 ch, normal: 1 ch) |
| **Hi-Fi Audio** | : Frequency Response; 20 Hz to 20 kHz |
| **Normal Audio** | : Frequency Response; 50 Hz to 10 kHz (SP mode)<br>S/N Ratio; 43 dB (SP mode) |
| **Remote** | : Mini-Jack (front)/PHONO (rear) |

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

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